

2020

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the name of Allah, Most Gracious, Most Merciful.

Tor Bridge Tutorial

AL AQSA IT TEAM

This book is free for All Muslim Brothers & sisters.

Don't Forget Us in Your Du'as

First Edition

1/1/2020



Tor Bridge Tutorial

Verily all praise is due to Allah. We praise Him and seek His assistance and seek His Forgiveness. Peace and blessings on Prophet Muhammad (peace be upon him).Peace & Blessings of Allah be upon you.

We made this tutorial to protect all Muslim brothers & sisters from kuffar, murtad, & munafiq. This book is free for All Muslim Brothers & Sisters.

Before read this TOR BRIDGE TUTORIAL, please read our previous book TOR BROWSER SECURITY GUIDELINE.

Don't Forget Us in Your Du'as



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the Name of Allah, the Beneficent, the Most-Merciful

Verily all praise is due to Allah. We praise Him and seek His assistance and seek His Forgiveness. Peace and blessings on Prophet Muhammad (peace be upon him).

And we seek refuge with Allāh from the evils of our own souls and from our bad deeds. Whomsoever Allāh guides will never be led astray, and whomsoever Allāh leaves astray, no one can guide. I bear witness that there is none worthy of worship except Allāh, and I bear witness that Muhammad is His slave and Messenger.

O you who believe! Fear Allāh as He should be feared, and die not except as Muslims.

And honor, power and glory belong to Allāh, His Messenger, and to the Mu“mineen”

(Al-Munafiqoon 63:8)

O you who believe! Keep your duty to Allāh and fear Him, and speak the truth. He will direct you to do righteous good deeds and will forgive you your sins. And whosoever Obeys Allāh and His Messenger has indeed achieved a great achievement.

Allāh is the Wali (Protector or Guardian) of those who have Imān”

(Al-Baqarah 2:257)

Peace and blessings on Prophet Muhammad (peace be upon him). Security precautions is from the very basic and fundamental orders and instructions from Prophet (SalAllahu alayhi wa ssalam).

As narrated from Abu Hurairah - the Prophet (SalAllahu alayhi wa ssalam) said;

A believer is not stung twice (by something) out of one and the same hole.

(Bukhārī: Volume 8, Book 73, Number 154)

Index

TASK	SUBJECT	PAGE
1	WHAT IS TOR BRIDGES ?	4
2	HOW TO GET TOR BRIDGE?	6
3	HOW TO INPUT TOR BRIDGE?	8

WHAT IS TOR BRIDGES ?

Bridge relays (or "bridges" for short) are Tor relays that aren't listed in the main Tor directory. Since there is no complete public list of them, even if your ISP is filtering connections to all the known Tor relays, they probably won't be able to block all the bridges. If you suspect your access to the Tor network is being blocked, you may want to use bridges.

The addition of bridges to Tor is a step forward in the blocking resistance race. It is perfectly possible that even if your ISP filters the Internet, you do not require a bridge to use Tor. So you should try to use Tor without bridges first, since it might work.

Note that it's also possible that Tor is non-functional for other reasons. The latest version of Tor Browser tries to give you better hints about why Tor is having problems connecting. You should also read the FAQ about problems with running Tor properly when you have issues. If you feel that the issue is clearly related to Tor being blocked, or you'd simply like to try because you're unsure or feeling adventurous, please read on. Ensure that you're using the latest Tor Browser for your platform.

To use a bridge, you have two options. Tor Browser now provides some bridges by default. You can enable these easily. Unfortunately, because these bridges are publically distributed, it is easy for censors to block some of them, so some of them may not work. In this case, you'll need to locate different bridges. Furthermore, you'll need to configure Tor Browser with whichever bridge address you intend to use. If your Internet connection requires the use of a proxy, you'll probably need to configure Tor Browser to use it first. If you don't think you need to configure a proxy for your Internet connection, you probably don't. Give it a try and if you have issues, ask us for help.

Pluggable Transports

Over the last few years, censors have found ways to block Tor even when clients are using bridges. They usually do this by installing special boxes at ISPs that peek into network traffic and detect Tor; when Tor is detected they block the traffic flow.

To circumvent such sophisticated censorship Tor introduced *pluggable transports*. These transports manipulate all Tor traffic between the client and its first hop such that it is not identifiable as a Tor connection. If the censor can't decide if the connection is a Tor connection, then they are less likely to block it.

Sadly, pluggable transports are not immune to detection, if a censor is given enough time. In the past, we promoted obfs and obfs2 as safe transports. These are now deprecated and were replaced by obfs3, scramblesuit, fte, and obfs4.

Bridges which support pluggable transports can be used with Tor Browser easily. Tor Browser includes some pre-configured bridges and you can get more from BridgeDB, if those don't work.

Understanding A Bridge Configuration Line

As an example, when you obtain a bridge from <https://bridges.torproject.org>, you'll get a bridge entry that looks like the following:

141.201.27.48:443 4352e58420e68f5e40bf7c74faddccd9d1349413

Understanding the components of a bridge line isn't strictly required but may prove useful. You can skip this section if you'd like.

The first element is the IP address of the bridge: '141.201.27.48'

The second element is the port number: '443'

The third element, the fingerprint (unique identifier of the bridge), is optional:

'4352e58420e68f5e40bf7c74faddccd9d1349413'

Pluggable transports tip:

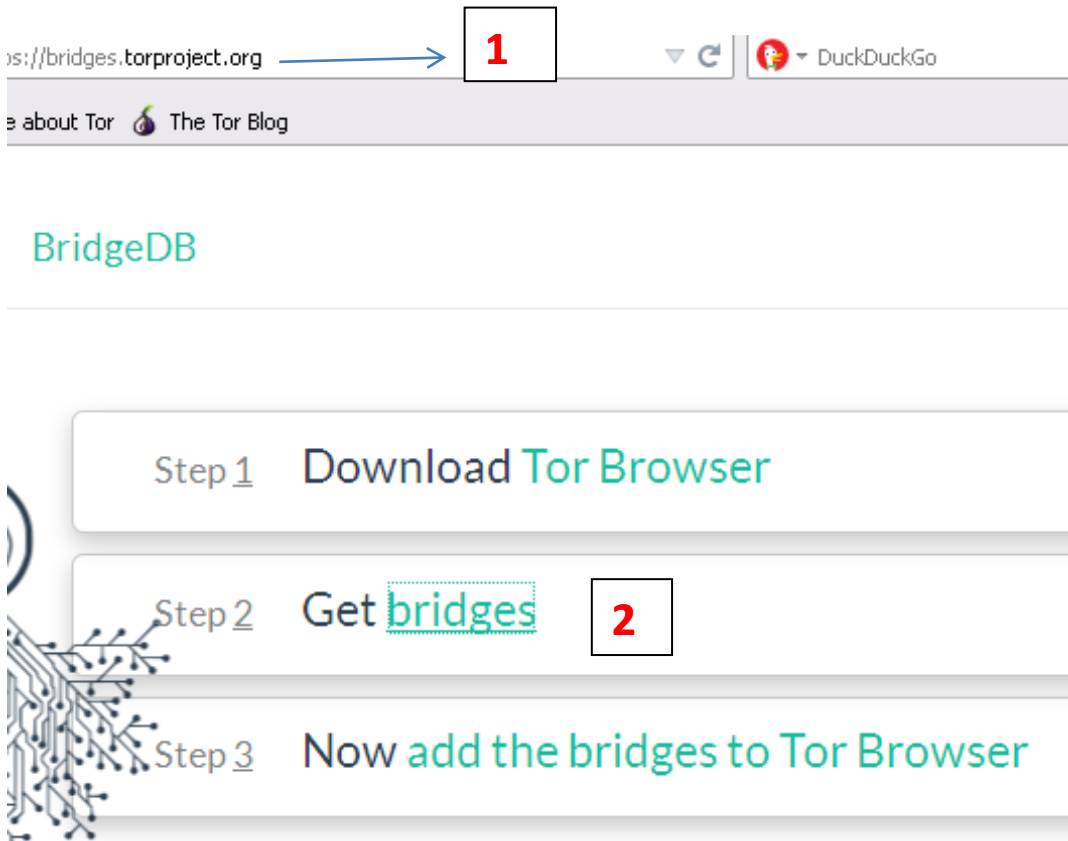
If your bridge line looks like this:

obfs3 141.201.27.48:420 4352e58420e68f5e40bf7c74faddccd9d1349413

The first element is the name of the pluggable transport technology used by the bridge. For example, in the case above, the bridge is using the **obfs3** pluggable transport.

HOW TO GET TOR BRIDGE?

- 1) First go to: —→ <https://bridges.torproject.org>
- 2) Click step 2 (get bridges)



- 3) Click (get bridges)

Advanced Options

Please select options for bridge type:

Do you need a Pluggable Transport?
obfs3

Do you need IPv6 addresses?
☐ Yes!

Get Bridges

3

21-11

4

↑

```
obfs3 91.250.87.161:16147 af-1c256290799b594a79e3d38e2b300...ae967  
194.122.88.16147 199...27A6...ed5187e1f5f  
obfs3 94.122.88.16147 af-1c256290799b594a79e3d38e2b300...ae967
```



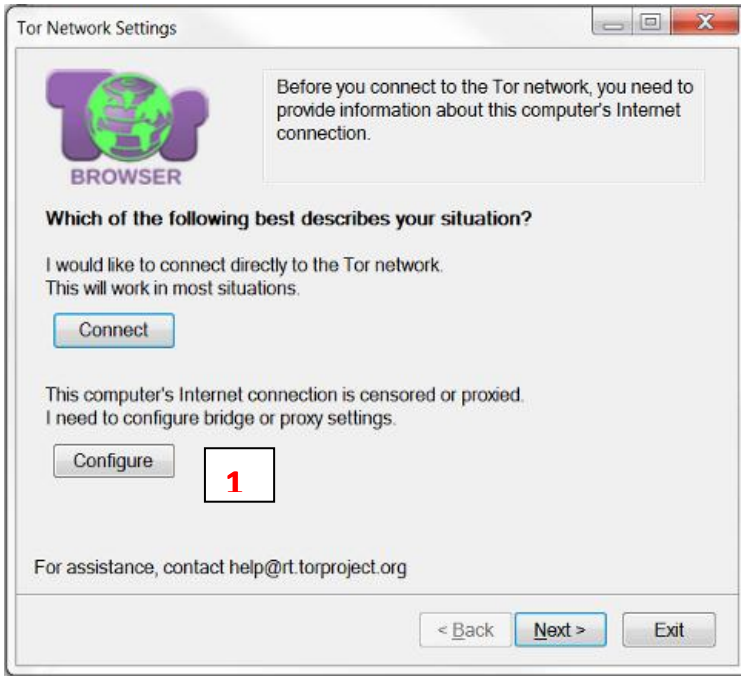
Select All

[Show ORCode](#)

HOW TO INPUT TOR BRIDGE?

Method 1: Adding bridges in Tor Browser when Tor *does not* work

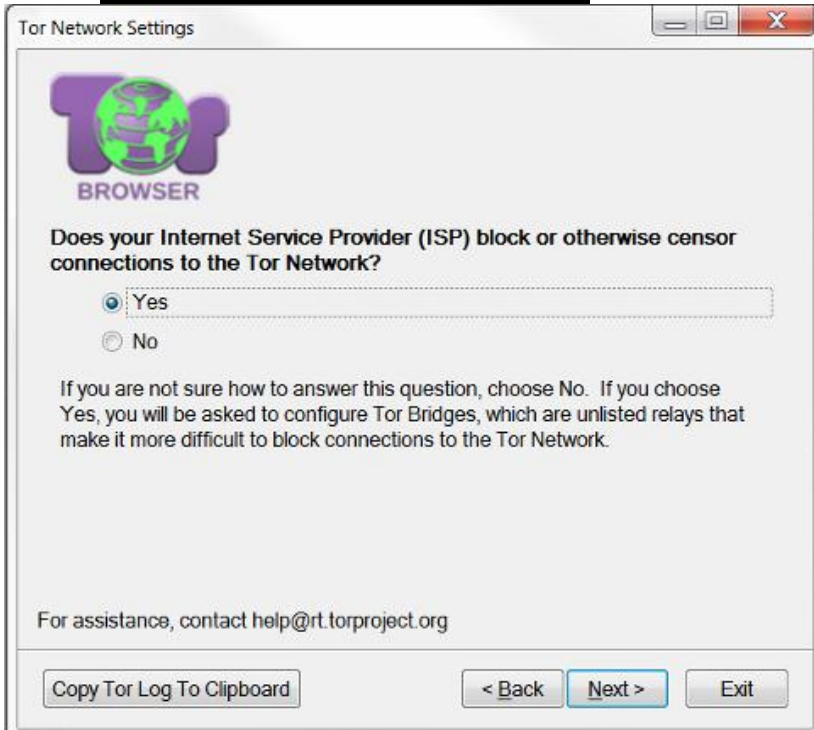
- 1) To add a bridge, follow the instructions on screen. Click the "Configure" button & click Next



- 2) If you **use a proxy** then select "**Yes**" & enter the details on the following page.
If you do **not use a proxy/ do not know** about proxy then select "**No**" and click "**Next**".

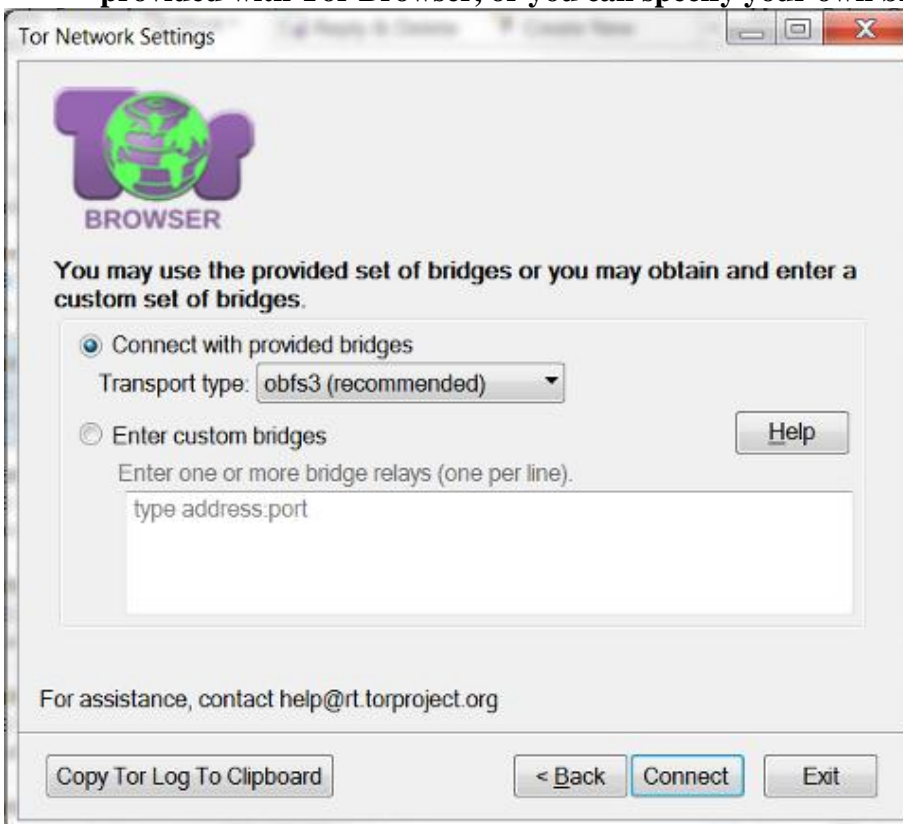


- 3) After you configure a proxy or skip over that configuration page, the following page asks "Does your Internet Service Provider (ISP) block or otherwise censor connections to the Tor Network?". Select "Yes" and then click "Next".



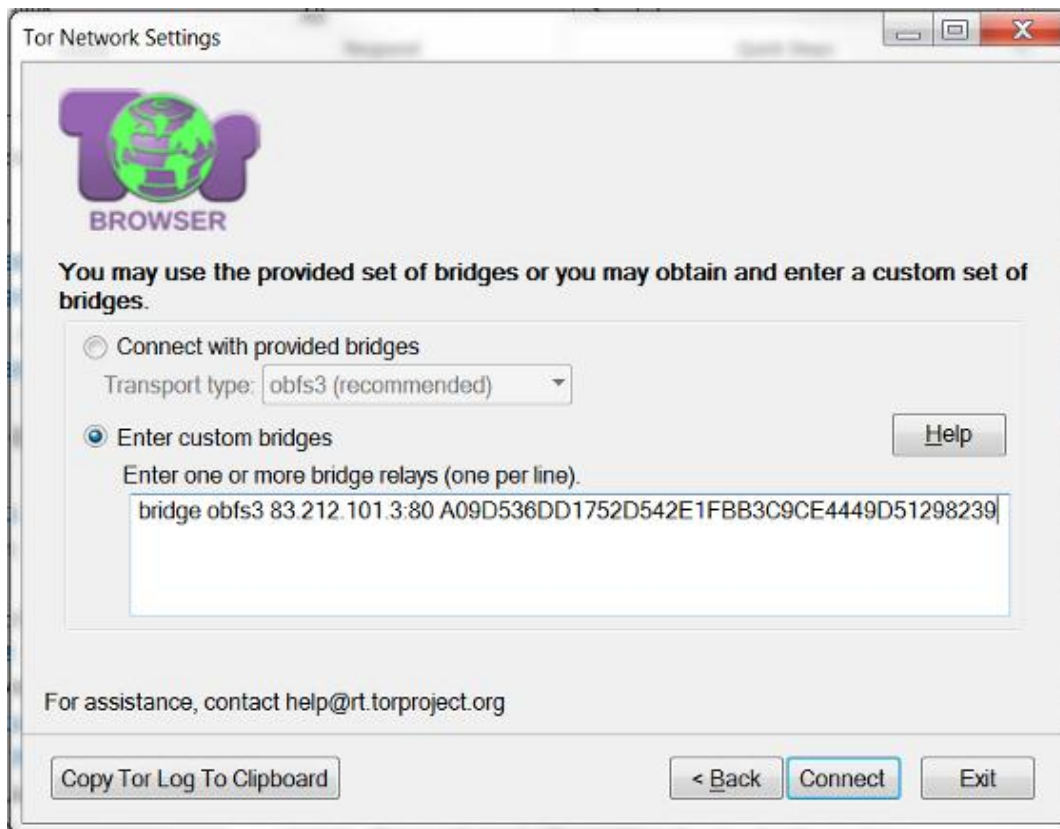
The screenshot shows the 'Tor Network Settings' window. At the top is the Tor Browser logo. Below it, the text asks: 'Does your Internet Service Provider (ISP) block or otherwise censor connections to the Tor Network?'. There are two radio buttons: 'Yes' (selected) and 'No'. Below the buttons, a note states: 'If you are not sure how to answer this question, choose No. If you choose Yes, you will be asked to configure Tor Bridges, which are unlisted relays that make it more difficult to block connections to the Tor Network.' At the bottom, there is a link for assistance: 'For assistance, contact help@rt.torproject.org'. The bottom bar contains three buttons: 'Copy Tor Log To Clipboard', '< Back', and 'Next >', along with an 'Exit' button.

- 4) Now you have two configuration options. You can use bridges which are preconfigured and provided with Tor Browser, or you can specify your own bridge(s).



The screenshot shows the 'Tor Network Settings' window with the Tor Browser logo. The text asks: 'You may use the provided set of bridges or you may obtain and enter a custom set of bridges.' There are two radio buttons: 'Connect with provided bridges' (selected) and 'Enter custom bridges'. Under 'Connect with provided bridges', there is a 'Transport type' dropdown menu set to 'obfs3 (recommended)'. Under 'Enter custom bridges', there is a text area with the placeholder 'type address.port' and a 'Help' button. At the bottom, there is a link for assistance: 'For assistance, contact help@rt.torproject.org'. The bottom bar contains three buttons: 'Copy Tor Log To Clipboard', '< Back', and 'Connect', along with an 'Exit' button.

5) Now Select **"Enter custom bridges"** & **copy-and-paste the bridge information** into the textbox.



7) After you decide which bridges you want to use, click **"Connect"**. Tor should now be able to load successfully and the browser window should appear.



Method 2: Adding bridges in Tor Browser when Tor *does* work:

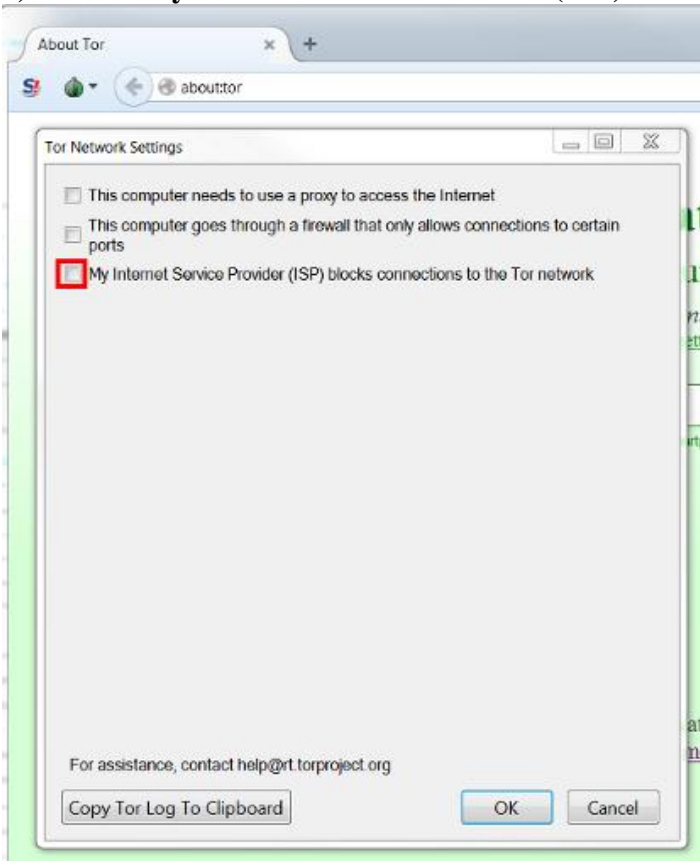
1) Start Tor Browser:



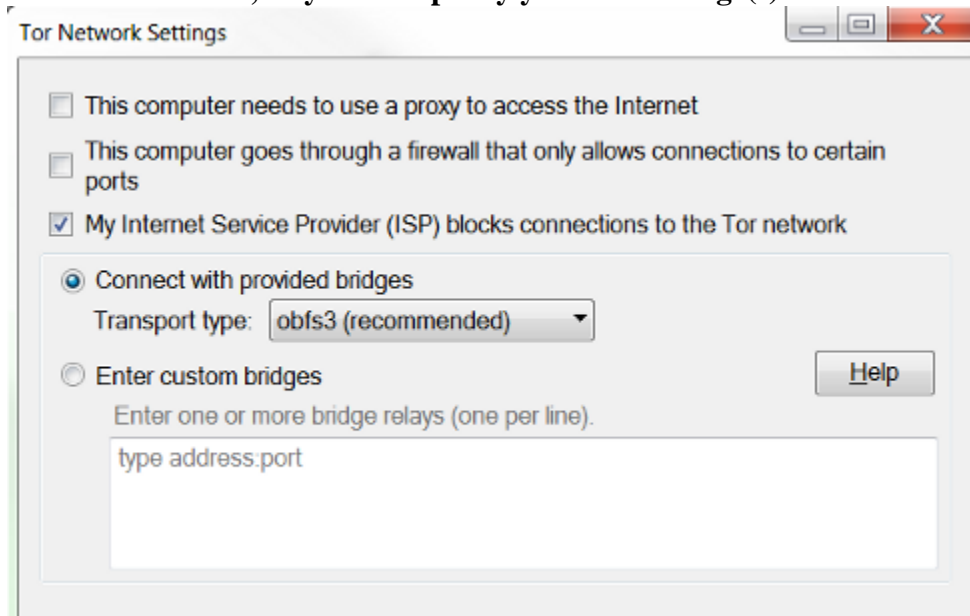
2) To begin using bridges, open Tor Browser's Network Settings:



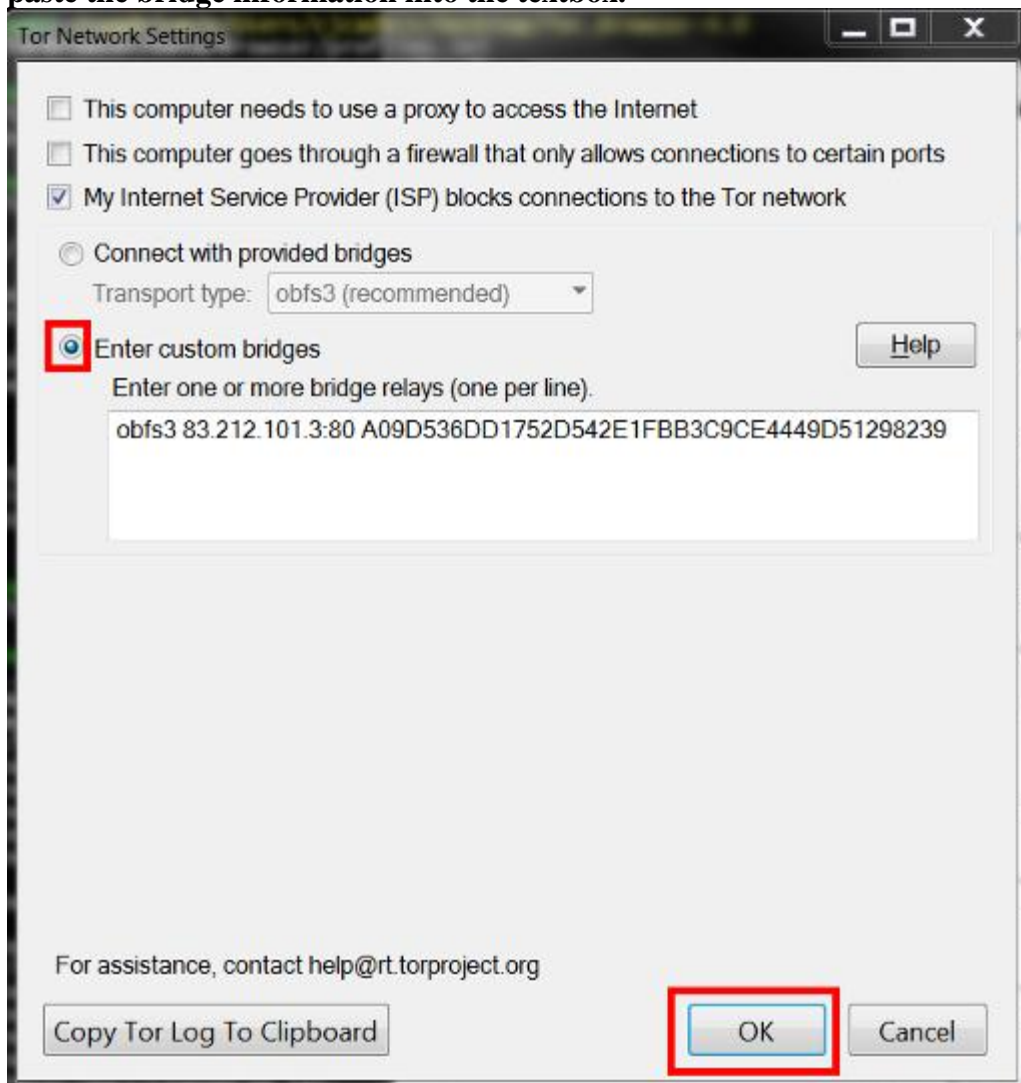
3) Select "My Internet Service Provider (ISP) blocks connections to the Tor network":



4) Now you have two configuration options. You can use bridges which are preconfigured and provided with Tor Browser, or you can specify your own bridge(s).



5) Alternatively, if you want to use a custom bridge, then select "Enter custom bridges" and copy-and-paste the bridge information into the textbox.



Additional tips

If you are unable to connect to the Tor network, it could be that your Internet Service Provider (ISP) or another agency is blocking Tor. Often, you can work around this problem by using Tor Bridges, which are unlisted relays that are more difficult to block. You may use the preconfigured, provided set of bridge addresses or you may obtain a custom set of addresses by using one of these three methods:

Through the Web

Use a web browser to visit <https://bridges.torproject.org>

Through the Email

Send email to bridges@torproject.org with the line 'get bridges' by itself in the body of the message.

However, to make it harder for an attacker to learn a lot of bridge addresses, you must send this request from one of the following email providers : <https://www.riseup.net/> [https://gmail.com /](https://gmail.com/) <https://mail.yahoo.com>

Through the Help Desk

As a last resort, you can request bridge addresses by sending a polite email message to help@rt.torproject.org . Please note that a person will need to respond to each request.

For any assistance contact: help@rt.torproject.org

Reference:

<https://www.torproject.org/>

<https://www.torproject.org/docs/bridges>

<https://bridges.torproject.org>

We ask Allāh (SWT) to accept this effort from us, count it amongst the righteous deeds and to forgive us for any evil that is contained in this compilation.

Don't Forget Us in Your Du'as
Your Brothers At
AL AQSA MEDIA & AL AQSA IT TEAM

